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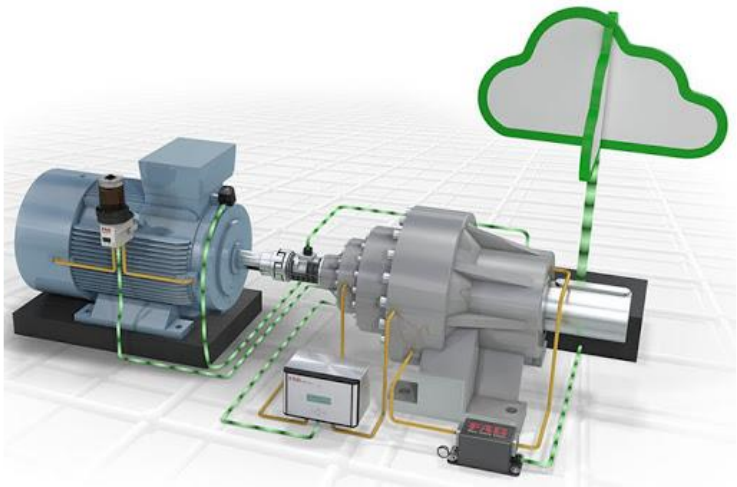
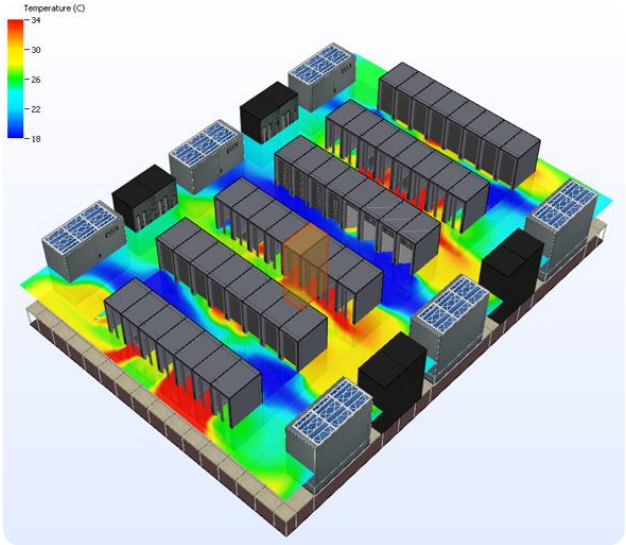
IOT FOR MECHANICAL ENGINEERS



IoT systems for condition monitoring of mechanical equipment (eg. motors, cranes and conveyer belts) help engineers understand the operating performance of such machinery. Systems like Dynapar's Onsite and Schaeffler's FAG range provide 24x7 condition monitoring and analytics solutions. It provides mechanical engineers with insights around vibrational analysis, lubrication, torque transmission, material stress etc helping them perform preventive and predictive maintenance of motors.

Additionally the field data from the machinery can be used to create accurate operating models and can be integrated in the design phase for the next generation of products.

IoT systems also improve thermodynamic and fluid modelling of isolated environments like data centers and industrial pipelines by providing high resolution real time heat and flow data. This is used while designing heating, air conditioning and ventilation (HVAC) systems for commercial or industrial processes. For example the ducting in server rooms is designed to remove heat from the computers and heat is generated when a server is running an intensive workload. IoT enables access to real time thermal data to adapting the ventilation for the dynamic workload on the servers.



Capsule Labs is founded by IoT industry veterans and offers foundational IoT projects to develop a better understanding of IoT solution. With our inertial kit you can create projects for vibrational analysis, flow measurement and thermal measurement.